

# SAI CHERISH POTLURI

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## EDUCATION

### Master's of Science in Computer Science

Aug 2021-May 2023

Arizona State University || Tempe, Arizona

**GPA:** 3.7

*Relevant Coursework:* Foundations of Algorithms, Computer Networks, Data Processing at Scale, Mobile Computing, Data Mining, Software Quality Management using Agile Methodologies

### Bachelor's of Technology in Computer Science

Jun 2016-Jun 2020

Gandhi Institute of Technology and Management || India

**GPA:** 3.4

*Relevant Coursework:* Data Structures & Algorithms, Object Oriented design in Java, Distributed and Multi-tiered Databases, Mathematical Optimization Techniques, Linear programming

## SKILLS

**Languages-** C/C++, Java, Python, JavaScript, SQL, Spark, HTML/CSS

**Frameworks-** Node.js, Spring, Django, Flask

**Databases-** PostgreSQL, MySQL, DynamoDB, MongoDB

**Other tools-** OpenCV, pandas, Git, Linux, Windows, VS Code

## WORK EXPERIENCE

### Trainee Decision Scientist || Mu Sigma

Aug 2020 - Oct 2020

Bangalore, India

*Technology Stack:* Python, pandas, NumPy, MS Excel, Tableau, Power BI

- Collaborated with a team of 5 and worked on a large E-Commerce dataset, introducing an effective inventory policy to balance disparate product demands thus saving \$10,000 per month.
- Utilized **KNN clustering** to identify high-demand products that need restocking early compared with other products, reducing the inventory work and increasing the efficiency by 60%.

### Software Development Engineer, Intern || Smart Bridge Solutions

Apr 2019 - Jun 2019

Hyderabad, India

*Technology Stack:* HTML/CSS, JavaScript, ReactJS, Python, NumPy, Jupyter

- Designed and developed a fully **scalable** website for a mobility service provider which deals with **2 million** records of data on average that reduced the manual effort by **60%**.
- Proposed an algorithm for predicting trip fare amount using **XGBoost** data model that was trained over a large dataset of **4 million** records, producing an accuracy of **80%**.

## ACADEMIC PROJECTS

### Knowledge Extraction from Context Sensors([Link](#))

Jun 2022

*Technology Stack:* Python, Node.js, Android, PyCharm

- Collaborated with a team of five in conceiving and designing an android mobile application that recorded videos and extracted information from them using knowledge recovery algorithm.
- Developed and automated the process of capturing a video, uploading it to the **Node.js** server and extracting it frame by frame, thus increasing application's speed.
- Predicted the gestures accurately and at a higher pace using the **cosine similarity** algorithm over a database of Deaf Tec gesture videos.

### Web Application Development([Link](#))

May 2022

*Technology Stack :* HTML/CSS, Javascript, ReactJS, Node.js, REST API

- Created a full stack web application using **ReactJS** for forecasting weather information about different parts of the world based on their geographical location.
- Implemented **OpenWeatherAPI** enabling forecasting of weather data up to **7 days** in advance.

### Android Application Development

Mar 2020

*Technology Stack:* AdobeXD, Firebase, XML, Java, Android Studio, Beautiful Soup

- Designed and developed an **android** app for a student organization of 1200, using a **Constraint Layout** made it interactive and responsiveness. Utilized **web scraping** and included dynamic timetables, class schedulers, attendance records features.

## ACHIEVEMENTS

### AWS Certified Cloud Practitioner ([CLF-01](#))

Aug 2022

- Explored cloud computing concepts, by working on cloud services provided by Amazon such as **S3**, **Lambda**, **EC2**, etc. Developed an understanding of Amazon's cloud architecture, its design principles and how cloud computing compares to on-premises.